

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

TEXON LP
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Information: (281) 531-8400
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Product Name: Butane (Normal)
MSDS Number: A0012.msds

Last Revision: 09/06/07
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Synonyms: n-Butane, Liquefied Butane, LPG, Liquefied Petroleum Gas, Butyl hydride, Diethyl, Methylethyl-Methane
Product Description: Butane Liquefied Petroleum Gas LPG.

2. COMPOSITION & INFORMATION ON INGREDIENTS

Product	CAS No.	Wt%	Occupational Exposure Limits*			Units
			OSHA PEL*	ACGIH TLV*	Other	
Butane (Normal)	Mixture	100	N/A	N/A		
Component(s)						
Butane	106-97-8	97	800**	1000		ppm
Pentane	109-66-0	1	1000	600		ppm
Isobutane	75-28-5	2	800**	1000		

Key: * = 8-Hr. TWA unless otherwise specified
STEL = Short Term Exposure Limit; 15 minutes.
N/A = Not Applicable
** = Vacated 1989 PEL

3. HEALTH HAZARD IDENTIFICATION

Note: This product has not been tested Texon LP to determine its specific health hazards. Therefore, the information provided in this section includes health hazard information on the product components.

Carcinogenicity:	NTP	IARC Monographs	OSHA Regulated	California Prop 65
Butane	N/A	N/A	N/A	N/A

N/A = Not Applicable

Potential Health Effects From Overexposure

Acute Effects:

Eyes: Slight to moderate eye irritation and frostbite (liquefied gas).

Skin: Contact with liquefied gas may cause frostbite.

Inhalation: Cause drowsiness, excitation or unconsciousness due to anesthetic and asphyxiant properties of the gas.

Ingestion: Not Applicable.

Chronic Effects:

Not Applicable

Additional Medical and Toxicological Information:

n-butane and isobutane have been shown to be weak cardiac sensitizers in laboratory animal testing.

4. FIRST AID MEASURES

Eye Contact: If liquid butane contacts the eye, immediately flush (minimum 15 minutes) the area with tepid water. Get medical attention.

Skin Contact: Promptly flush the affected area with tepid water. If freezer burns have occurred, apply bulky, dry, sterile bandage to protect area. Get medical attention.

Inhalation: Remove to fresh air. If breathing has stopped, apply artificial respiration. Get medical attention.

Ingestion: Not Applicable.

5. FIRE FIGHTING MEASURES

Flash Point: Not Applicable

Flammable Limits in Air, % by Volume:

Lower: 1.6

Upper: 8.4 or is this the actual mixture parameters

Auto ignition Temperature: 760°F

Extinguishing Media: Dry chemical, foam, carbon dioxide.

NFPA Ratings: Health: 1 Flammability: 4 Reactivity: 0

OSHA Classification: Flammable Gas

General Hazard:

Vapors may flow on surface for considerable distance, reach an ignition source, and flash back. It can be a dangerous fire and explosion hazard when mixed with air or other oxidizers. Continue cooling containers with water well after fire has been extinguished.

Fire Fighting Instructions:

Water may be ineffective on flames but should be used to keep fire-exposed containers cool. Do not completely extinguish flame unless gas flow is shut off! Firefighters should wear self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE

Remove source of heat or ignition including internal combustion engines and power tools. Stop gas flow. Keep people away. Stay upwind/upgradient and warn people downwind of possible explosion. Wear self-contained breathing apparatus if condition warrants.

7. HANDLING & STORAGE

Store and use butane cylinders and tanks in well-ventilated areas, away from direct sunlight and sources of ignition. No smoking in areas of storage or use. Electrically bond all lines and equipment used with butane. Keep away from oxidizing agents and from cylinders of oxygen or chlorine.

8. EXPOSURE CONTROL, PERSONAL PROTECTION

Eye Protection: If contact with liquid butane is possible, chemical-type goggles or face shield should be used.

Skin Protection: Where contact with liquid butane is possible, wear appropriate protective clothing and gloves (nitrile, neoprene or equivalent).

Inhalation: Use NIOSH approved respiratory protective equipment (Supplied Air or Self-Contained Breathing Apparatus) for cleaning large spills or entry into tanks, vessels or other designated confined spaces or in any situation where airborne concentrations may exceed occupational exposure limits.

Engineering Controls/Safe Work Practices: Provide adequate general and local ventilation: (1) to maintain airborne chemical concentrations below applicable exposure limits, (2) to prevent accumulation of flammable vapors and formation of explosive atmospheres, and (3) to prevent formation of oxygen deficient atmospheres [Note: this product may displace oxygen in enclosed areas]. Use non-sparking, explosion proof, totally enclosed ventilation systems. Inert containers prior to opening. Only use non-sparking tools.

9. PHYSICAL & CHEMICAL PROPERTIES

Boiling Point 760 mmHg: 31°F
Vapor Pressure mmHg @20°C: 2 Atmosphere
% Solubility in H₂O: Slightly Soluble
Specific Gravity 60/60F: 0.6012
% Volatile by Volume: 100
Viscosity(method, temp.): N/A

Freezing Point: -217°F
Vapor Density(Air=1):2.11
pH: N/A
Evaporation Rate: N/A
(Butyl Acetate=1)
Odor: Faint, gasoline or
natural gas-like
odor

Appearance: colorless gas

10. STABILITY & REACTIVITY

Stability: Stable under normal conditions of use.

Hazardous Polymerization: Will not occur.

Conditions to Avoid/Incompatibilities: Strong oxidizing agents, heat, sparks, flame and build up of static electricity.

Hazardous Decomposition Products: CO, CO₂

11. TOXICOLOGICAL INFORMATION

Not available.

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL INFORMATION

Dispose through a licensed waste disposal company. Follow federal, state and local disposal regulations.

14. TRANSPORT INFORMATION

Liquefied petroleum gas, 2.1, UN 1075.

15. REGULATORY INFORMATION

EPA SARA TITLE III

Section 302 EPCRA Extremely Hazardous Substances (EHS)

Product Component	CAS No.	Wt%	RQ, lb	TPQ, lb
Not Applicable				

Section 304 CERCLA Hazardous Substances

Product Component	CAS No.	Wt%	RQ, lb
None			

Section 311/312 Hazard Categorization

Acute:	Chronic:	Fire:	Pressure:	Reactive:
X		X	X	

Section 313 EPCRA Toxic Substances

Product Component	CAS No.	Wt.%
None		

Key: RQ = Reportable Quantity
TPQ = Threshold Planning Quantity of EHS

CALIFORNIA PROPOSITION 65 WARNING

The California Safe Drinking Water and Toxic Enforcement Act of 1986. This product, as supplied for its intended use, contains no substances present at any level that are, under the Statute, characterized as known to the State of California to cause cancer or to be a reproductive toxicant.

NEW JERSEY: Butane is on the Right-to-Know Hazardous Substance List as a Special Health Hazard.

16. OTHER INFORMATION

THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS TO THE BEST OF THIS COMPANY'S KNOWLEDGE AND BELIEVED ACCURATE AND RELIABLE AS OF THE DATE INDICATED. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO THE ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY THEMSELVES AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR THEIR OWN PARTICULAR USE.

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